ProCon Converter
FVT-5000

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16-Slot Managed Converter Chassis with Redundant Power Supply

Intelligent Media Converter Chassis

The FVT-5000 Managed Media Converter Chassis is a 16-slot converter centre for LevelOne media converter modules.

Depending on the specific requirements of the network, several LevelOne converters are compatible with the FVT-5000. It provides support for 10/100TX to 100FX and 1000T to SFP modules. Each module is automatically identified once slotted in.

The FVT-5000 supports SNMP, Web, Telnet and console management features with event log and SNMP Trap management interfaces. It further supports SNMP MIBII and private MIB with HTTP and Telnet security features as well as Link Loose forwarding technology to combat and manage broken links between local and remote modules. The management features for the FVT-5000 enable network administrators to monitor the status of the converter modules and configure modules remotely.

Moreover, it allows to configure, monitor and test the remote converters with TS-1000 supported

The FVT-5000 converter chassis is suitable for the following LevelOne Converter Modules:

- **FVT-5001**
  10/100TX-100FX, SC Multi-mode, 2km, TS-1000
- **FVT-5301**
  10/100TX-100FX, SC Single-mode, 30km, TS-1000
- **GVT-5000**
  10/100/1000BaseT to SFP for mini-GBIC module 3.3v

This enables users to mix and match LevelOne modules to match their network requirements.

FVT-5000

Key Features

- Provides for 16 slots and redundant AC power
- Supports 10/100TX to 100FX, to 1000T to SFP modules
- Converter module and CPU modules are hot-swappable
- Provides status check and management for SNMP, power, fan and media converter modules
- Configure and check status of converter and modules via the console, telnet, web and SNMP interface
- Features intelligent module identification capability
- Features Link Loose Forwarding technology for advanced automated networking infrastructure and function monitoring
- Supports TS-1000 function for the 10/100 module
- Provides for back-door password feature will quick access and maintenance
- Friendly Web-based user interface
- EIA RS-310C 19” standard rack mountable size

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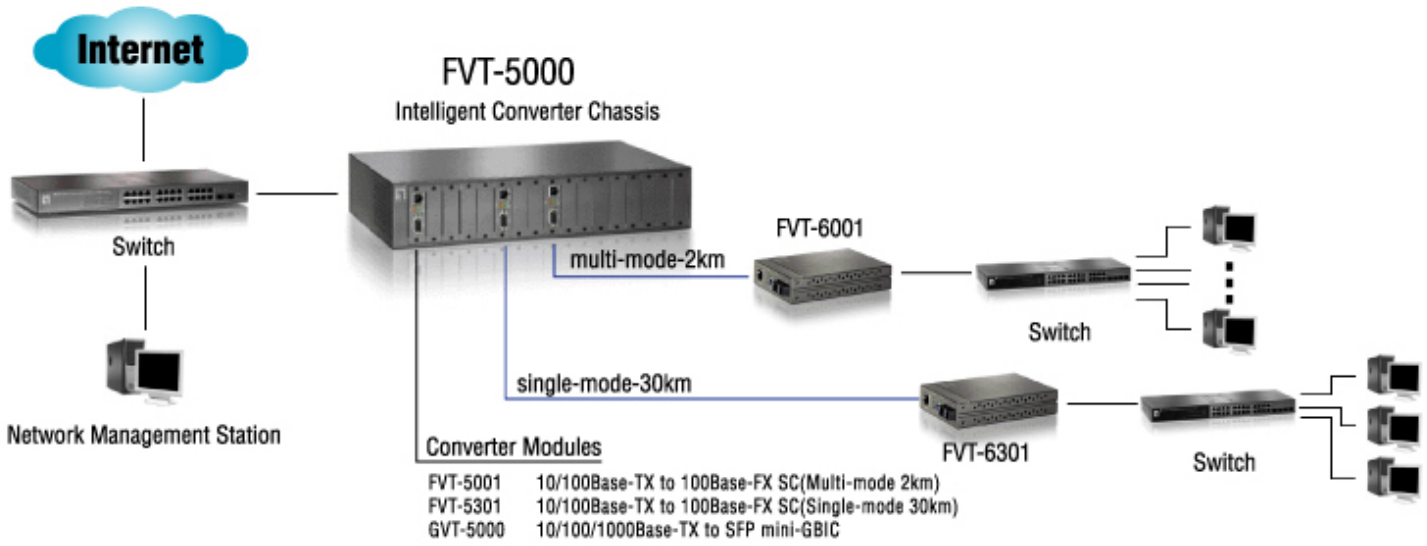
Technical Specification

- **Connector**
  CPU Board:
  RJ-45 for 10/100Mbps, Full/Half Duplex
  Module Slot:
  16 Converter Module slots
- **LED Indicators**
  Power, TX (100/1000Mbps, LK/Act, FDX/COL), Fiber (LK/Act, FDX/COL)
- **Management**
  SNMP, Web UI, Telnet, Console
- **System Power**
  Redundant and Load Sharing function support
  AC 90~240 VAC, 50/60 HZ @ 20A (max)
- **Physical Specifications**
  Dimension: 448mm(w) * 89mm(H) * 279mm(D)
  Operation Temp. 0 ~ 45°C
  Operation Humidity 10% to 90% (Non-condensing)
  Storage Temp. -10 ~ 70°C
- **Certifications**
  EMI: FCC Class A, CE

Product Diagram



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Technical Specification for Modules

FVT-5001/FVT-5301

- UTP to IEEE802.3u 100Base-FX modules
- Support TS-1000, Loop Back Test
- Hot swappable
- Used for central side
- Auto-Negotiation on 10/100Base-T
- Support Auto-MDI-MDIX
- Built-in Link Loose Forwarding Technology
- Remote Monitor/Control for terminal side

■ **Standards Compliant**

IEEE802.3 10Base-T
IEEE802.3u 100Base-TX/100Base-FX
IEEE802.3x Flow control and Back pressure

■ **Fiber parameters**

Fiber Core:
Multi-Mode (62.5/125um, 50/125um)
Single-Mode (8/125um, 10/125um)

Wavelength:
100Mbps multi-mode: 1310nm
100Mbps single-mode: 1310nm

Fiber distance:
100Mbps module - Multi-Mode (2KM)
100Mbps module - Single-Mode Fiber (30 KM)

■ **Connector**

Fiber
Duplex SC Multi-Mode 2km
Single-Mode 30km

RJ-45 Socket
10Mbps: CAT-3/4, 4 pairs of Twisted Pair Cable
100Mbps: CAT-5, 4 pairs of Twisted Pair Cable

■ **Switch architecture**

Store and Forward

■ **Link Loose Forward**

If Fiber link down, it will force the TX port link also down
If TX port link down, it will force the Fiber port link also down

■ **LED Indicators**

Power, Speed,
TX: Link Activity, Speed, Full Duplex
FX: Links, Activity, Full Duplex

■ **Physical Specifications**

Dimension: 80mm(W)*157mm(D)*24mm(H)
Operation Temp: 0°C ~ 45°C
Operation Humidity: 10% to 90% (Non-condensing)
Storage Temp: -10°C ~ 70°C

■ **Certifications**

EMI: FCC Class A, CE

GVT-5000

■ **Standards Compliant**

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX with N-way auto negotiation
IEEE802.3ab Gigabit copper with N-way auto-negotiation
IEEE802.3z for Gigabit fiber

■ **Fiber parameters**

Fiber Core:
Multi-Mode (62.5/125um, 50/125um)
Single-Mode (8/125um, 10/125um)

Wavelength:
1000Mbp Single-mode: 1310nm
1000Mbps Multi-mode: 850nm

Fiber distance:
Gigabit Distance: depend on mini-GBIC transceiver type

■ **Connector**

Fiber
SFP Slot for mini-GBIC transceiver

RJ-45 Socket
CAT- 5 (1000Mbps) 4 pairs of UTP/STP cable

■ **Switch architecture**

Store and Forward

■ **Transparent Packet**

64 to 1518 Bytes for Non-VLAN Ethernet packet
68 to 1522 Bytes for VLAN-Tag type Ethernet packet

■ **Link Loose Forward**

If Fiber link down, it will force the TX port link also down
If TX port link down, it will force the Fiber port link also down

■ **LED Indicators**

100/1000TX to MINI GBIC module: Power, Gigabit
Copper: Speed, 1000Mbps, LNK/ACT, FDX/COL
Fiber: LNK/Act, FDX/COL

■ **Physical Specifications**

Dimension: 80mm(W)*157mm(D)*24mm(H)
Operation Temp: 0°C ~ 45°C
Operation Humidity: 10% to 90% (Non-condensing)
Storage Temp: -10°C ~ 70°C

■ **Certifications**

EMI: FCC Class A, CE

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Ordering Information

FVT-5000: 16-Slot Managed Converter Chassis with Redundant Power Supply

Optional Modules:
FVT-5001: 10/100TX-100FX, SC Multi-mode, 2KM, TS-1000
FVT-5301: 10/100TX-100FX, SC Single-mode, 30KM, TS-1000
GVT-5000: 10/100/1000BaseT to SFP for mini-GBIC module 3.3v

Optional mini-GBIC Transceiver:
GVT-0300: mini-GBIC SFP transceiver SX/LC (Multi-mode 550m)
GVT-0301: mini-GBIC SFP transceiver LX/LC (Single-mode 10km)
GVT-0302: mini-GBIC SFP transceiver ZX/LC (Single-mode 70km)

Standalone Converter: (Remote Location)
FVT-6001: 10/100TX to 100FX SC, Multi-mode 2km (TS-1000)
FVT-6301: 10/100TX to 100FX SC, Single-mode 30km (TS-1000)